

10/597470

## PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:

TRANSLATION  
PCTWRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

|   |   |   |  |
|---|---|---|--|
| Applicant's or agent's file reference<br><b>1056-PCT</b>                          |   | Date of mailing<br>(day/month/year)                 |  |
|   |   | FOR FURTHER ACTION<br>See paragraph 2 below         |  |
| International application No.<br><b>PCT/JP2005/000972</b>                         | International filing date (day/month/year)<br><b>26.01.2005</b> | Priority date (day/month/year)<br><b>26.01.2004</b> |  |
| International Patent Classification (IPC) or both national classification and IPC |   |   |  |
| Applicant<br><b>KYOCERA CORPORATION</b>   |   |   |  |

|   |  |
|---|--|
| 1. This opinion contains indications relating to the following items:   |  |
| <input checked="" type="checkbox"/>   | Box No. I Basis of the opinion   |
| <input type="checkbox"/>  | Box No. II Priority  |
| <input type="checkbox"/>  | Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability   |
| <input type="checkbox"/>  | Box No. IV Lack of unity of invention  |
| <input checked="" type="checkbox"/>   | Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/>  | Box No. VI Certain documents cited   |
| <input type="checkbox"/>  | Box No. VII Certain defects in the international application   |
| <input type="checkbox"/>  | Box No. VIII Certain observations on the international application   |
| 2. FURTHER ACTION   |  |
| <p>If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.</p> <p>If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.</p> <p>For further options, see Form PCT/ISA/220.</p> |  |
| 3. For further details, see notes to Form PCT/ISA/220.  |  |

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|--|--------------------|
| Name and mailing address of the ISA/JP | Authorized officer |
| Facsimile No.                          | Telephone No.      |

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/000972

Box No. I

Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  
☐ This opinion has been established on the basis of a translation from the original language into the following language  
\_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material  
☐ a sequence listing  
☐ table(s) related to the sequence listing
  - b. format of material  
☐ in written format  
☐ in computer readable form
  - c. time of filing/furnishing  
☐ contained in the international application as filed.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/JP2005/000972

| Box No. V   | Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |      |     |
|---|--|------|-----|
| <b>1. Statement</b>   |  |      |     |
| Novelty (N)   | Claims   | 1-41 | YES |
|   | Claims   |      | NO  |
| Inventive step (IS)   | Claims   |      | YES |
|   | Claims   | 1-41 | NO  |
| Industrial applicability (IA)   | Claims   | 1-41 | YES |
|   | Claims   |      | NO  |
| <b>2. Citations and explanations:</b>   |  |      |     |
| <p>Document 1: WO2003/21691, A (Matsushita Electric Industrial Co., Ltd.), 13 March, 2003 (13.03.03), &amp; US 2004/104391 A &amp; EP 1367655 A1</p> <p>Document 2: JP 2003-249373, A (Fuji Photo Film Co., Ltd.), 05 September, 2003 (05.09.03), (Family: none)</p> <p>Document 3: LEE Jinwook, Full Color Emission from II-VI Semiconductor Quantum Dot-Polymer Composites, Adv. Mater., Vol. 12, No. 15, pages 1102-1105, 02 August, 2000 (02.08.00)</p> <p>Document 4: JP 2002-121548, A (Mitsubishi Chemical Corp.), 26 April, 2002 (26.04.02), (Family: none)</p> <p>Document 5: JP 2003-243727, A (Nichia Chemical Industries, Ltd.), 29 August, 2003 (29.08.03), (Family: none)</p> <p>Document 6: JP 2002-314142, A (Toyota Gosei Co., Ltd.), 25 October, 2002 (25.10.02), &amp; US 2002/163302 A &amp; EP 1249873 A2</p> <p>Document 1 describes that it is effective to add ultrafine particles of which average particle size is 20nm or less to a light-emitting device which converts wavelength containing phosphor of which particle size is 0.1µm or more within resin matrices. Consequently, as described in documents 2-4, utilizing semiconductor ultrafine particles, occasionally having core-shell structure, which is utilized as optimal substance for a similar light emitting device capable of converting wavelength, as the ultrafine particle described in document 1 is easy for a person skilled in the art to conceive.</p> <p>Further, with regard to resin to enclose phosphor particles or semiconductor ultrafine particles used in light-emitting device capable of converting wavelength, various types of transparent/ permeable resin described in documents 2-6 is used and it is something that a person skilled in the art arbitrarily chooses. Moreover, a person skilled in the art can also choose types and characteristics of phosphor or semiconductor ultrafine particles to be enclosed in the resin from options publicly known.</p> <p>Therefore, the subject matters of claims 1-41 of the present application is self-evident due to documents 1-6 and does not seem to involve an inventive step.</p> <p>The inventions described in the subject matters of claims 1-41 seem to have industrial availability.</p> |  |      |     |